



COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MO
LEAD AND COPPER MONITORING
SUMMARY REPORT

DATE: JANUARY 6, 2022

FACILITY NAME: **SHEPARD BOULEVARD ELEMENTARY SCHOOL**

A. SAMPLE COLLECTION

- | | |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY | 46 |
| 2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS | 100.0% |
| 1. COPPER ACTION LIMIT = 1,300 UG/ | |
| 3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS | 100.0% |
| 1. LEAD ACTION LIMIT = 15 UG/L | |
| (The requirement in the USEPA Lead and Copper Rule for public water supplies is 90% passing) | |

B. SAMPLE EXCEEDANCE

- | | |
|--|---|
| 1. NUMBER OF SAMPLES EXCEEDING COPPER ACTION LIMIT | 0 |
| 2. NUMBER OF SAMPLES EXCEEDING LEAD ACTION LIMIT | 0 |

C. CONCLUSION

This facility meets the (recommended) requirements of the United States Environmental Protection Agency (USEPA) and the published Lead and Copper Rule (LCR) of 1991 (reference: 40 CFR Part 141 Subpart I). Public Run Water Suppliers must comply with the USEPA law and the LCR. Columbia Water & Light is the publicly run water utility that serves this school.

Initially failed tests were resampled using the first flush method and tested for verification. Should the laboratory analysis reveal results that exceed the LCR action limits, you can utilize the recommendations within the LCR to address those specific locations. They include but are not limited to: flushing prior to use (make it a practice to run the water at each tap before use), repairing and/or replacing fixtures and/or piping and by not using the water for consumption. All are recommended by the Lead and Copper Rule.

Although the Lead and Copper Rule may not directly apply to Columbia Public Schools and each of its schools or support buildings that are part of the 2020 City of Columbia Water Quality Assessment Report; it is a common practice for experts in the field and members of the known industry to use the standard as a guideline for water assessment studies.

Prepared By:

Joshua D. Lehmen, PE



August 25, 2021

Josh Lehmen
Engineering Surveys & Services
1113 Fay Street
Columbia, MO 65201

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the **47** sample(s) the laboratory received on **7/28/21 3:20 pm** and logged in under work order **EG05616**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Erin Lane
Project Manager



**SAMPLE RECEIPT CHECK LIST****Items not applicable will be marked as in compliance**

Work Order EG05616

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
NO	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EG05616-01**Name:** 1. Room 116 - Drinking Water Fountain**Alias:** SBE-DWF-1**Sampled:** 07/24/21 07:30**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	100	ug/L		1300	07/30/21 16:50	TJJ	EPA 200.8 REV 5.4
Lead	2.2	ug/L		15	07/30/21 16:50	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-02**Name:** 2. Room 117 - Drinking Water Fountain**Alias:** SBE-DWF-2**Sampled:** 07/24/21 07:20**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	72	ug/L		1300	07/30/21 16:59	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	07/30/21 16:59	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-03**Name:** 3. Room 114 - Drinking Water Fountain**Alias:** SBE-DWF-3**Sampled:** 07/24/21 07:22**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	71	ug/L		1300	07/30/21 17:01	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	07/30/21 17:01	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-04**Name:** 4. Room 115 - Drinking Water Fountain**Alias:** SBE-DWF-4**Sampled:** 07/24/21 07:20**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	69	ug/L		1300	07/30/21 17:02	TJJ	EPA 200.8 REV 5.4
Lead	2.3	ug/L		15	07/30/21 17:02	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-05
Name: 5. Hall by 122 - Electric Water Cooler
Alias: SBE-EWC-1

Sampled: 07/24/21 07:30
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	320	ug/L		1300	07/30/21 17:04	TJJ	EPA 200.8 REV 5.4
Lead	7.7	ug/L		15	07/30/21 17:04	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-06
Name: 6. Room 112 - Drinking Water Fountain
Alias: SBE-DWF-5

Sampled: 07/24/21 07:24
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	07/30/21 17:05	TJJ	EPA 200.8 REV 5.4
Lead	3.6	ug/L		15	07/30/21 17:05	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-07
Name: 7. Hall by 109 - Electric Water Cooler
Alias: SBE-EWC-2

Sampled: 07/24/21 07:20
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	07/30/21 17:07	TJJ	EPA 200.8 REV 5.4
Lead	3.5	ug/L		15	07/30/21 17:07	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-08
Name: 8. Nurses Office Facuet
Alias: SBE-NF-1

Sampled: 07/24/21 07:15
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	53	ug/L		1300	07/30/21 17:08	TJJ	EPA 200.8 REV 5.4
Lead	5.9	ug/L		15	07/30/21 17:08	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-09
Name: 9. Room 104 - Drinking Water Fountain
Alias: SBE-DWF-6

Sampled: 07/24/21 07:34
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	260	ug/L		1300	07/30/21 17:10	TJJ	EPA 200.8 REV 5.4
Lead	150	ug/L		**15	07/30/21 17:10	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-10
Name: 10. Room 101 - Classroom Faucet
Alias: SBE-CF-101

Sampled: 07/24/21 07:30
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	77	ug/L		1300	07/30/21 17:19	TJJ	EPA 200.8 REV 5.4
Lead	8.1	ug/L		15	07/30/21 17:19	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-11
Name: 11. Teachers Lounge
Alias: SBE-TLF-1

Sampled: 07/24/21 07:20
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	78	ug/L		1300	07/30/21 17:21	TJJ	EPA 200.8 REV 5.4
Lead	6.2	ug/L		15	07/30/21 17:21	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-12
Name: 12. Room 118 - Drinking Water Fountain
Alias: SBE-DWF-7

Sampled: 07/24/21 07:35
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	07/30/21 17:22	TJJ	EPA 200.8 REV 5.4
Lead	63	ug/L		**15	07/30/21 17:22	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-13
Name: 13. Hall by 119 - Electric Water Cooler
Alias: SBE-EWC-3

Sampled: 07/24/21 07:42
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	07/30/21 17:24	TJJ	EPA 200.8 REV 5.4
Lead	5.5	ug/L		15	07/30/21 17:24	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-14
Name: 14. Room 120- Classroom Faucet
Alias: SBE-CF-120

Sampled: 07/24/21 07:24
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	48	ug/L		1300	07/30/21 17:25	TJJ	EPA 200.8 REV 5.4
Lead	26	ug/L		**15	07/30/21 17:25	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-15
Name: 15. Kitchen Faucet East Wall
Alias: SBE-KF-1

Sampled: 07/24/21 07:48
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	73	ug/L		1300	07/30/21 17:27	TJJ	EPA 200.8 REV 5.4
Lead	4.2	ug/L		15	07/30/21 17:27	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-16
Name: 16. Kitchen Faucet Island
Alias: SBE-KF-2

Sampled: 07/24/21 00:00
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	07/30/21 17:28	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	07/30/21 17:28	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-17
Name: 17. Kitchen Faucet West Wall
Alias: SBE-KF-3

Sampled: 07/24/21 07:49
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	58	ug/L		1300	07/30/21 17:30	TJJ	EPA 200.8 REV 5.4
Lead	9.6	ug/L		15	07/30/21 17:30	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-18
Name: 18. Room 122 - Drinking Water Fountain
Alias: SBE-DWF-8

Sampled: 07/24/21 07:45
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	43	ug/L		1300	07/30/21 17:39	TJJ	EPA 200.8 REV 5.4
Lead	5.1	ug/L		15	07/30/21 17:39	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-19
Name: 19. Room 124 - Drinking Water Fountain
Alias: SBE-DWF-9

Sampled: 07/24/21 07:55
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	50	ug/L		1300	07/30/21 17:40	TJJ	EPA 200.8 REV 5.4
Lead	6.0	ug/L		15	07/30/21 17:40	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-20
Name: 20. Room 127 - Drinking Water Fountain
Alias: SBE-DWF-10

Sampled: 07/24/21 07:54
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	57	ug/L		1300	07/30/21 17:42	TJJ	EPA 200.8 REV 5.4
Lead	12	ug/L		15	07/30/21 17:42	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-21
Name: 21. Room 126 - Drinking Water Fountain
Alias: SBE-DWF-11

Sampled: 07/24/21 07:24
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/03/21 16:30	TJJ	EPA 200.8 REV 5.4
Lead	18	ug/L		**15	08/03/21 16:30	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-22
Name: 22. Room 131 - Drinking Water Fountain
Alias: SBE-DWF-12

Sampled: 07/24/21 07:59
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/03/21 16:32	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/03/21 16:32	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-23
Name: 23. Room 130 - Drinking Water Fountain
Alias: SBE-DWF-13

Sampled: 07/24/21 08:00
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	560	ug/L		1300	08/03/21 16:33	TJJ	EPA 200.8 REV 5.4
Lead	35	ug/L		**15	08/03/21 16:33	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-24
Name: 24. Room 133 - Drinking Water Fountain
Alias: SBE-DWF-14

Sampled: 07/24/21 08:02
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/03/21 16:35	TJJ	EPA 200.8 REV 5.4
Lead	7.0	ug/L		15	08/03/21 16:35	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-25
Name: 25. Hall by 136 - Electric Water Cooler
Alias: SBE-EWC-4

Sampled: 07/24/21 08:05
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/03/21 16:41	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:41	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-26
Name: 26. Room 137 - Drinking Water Fountain
Alias: SBE-DWF-15

Sampled: 07/24/21 08:04
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/03/21 16:45	TJJ	EPA 200.8 REV 5.4
Lead	5.5	ug/L		15	08/03/21 16:45	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-28
Name: 28. Room 141 - Classroom Faucet
Alias: SBE-CF-141

Sampled: 07/24/21 08:07
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/03/21 16:47	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:47	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-29
Name: 29. Hall by 147 - Electric Water Cooler
Alias: SBE-EWC-5

Sampled: 07/24/21 08:10
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/03/21 16:48	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:48	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-30
Name: 30. Hall by 148 - Electric Water Cooler
Alias: SBE-EWC-6

Sampled: 07/24/21 08:10
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/03/21 16:50	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:50	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-31
Name: 31. Room 151 - Classroom Faucet
Alias: SBE-CF-151

Sampled: 07/24/21 08:11
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	290	ug/L		1300	08/03/21 16:51	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:51	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-32
Name: 32. Room 150 - Classroom Faucet
Alias: SBE-CF-150

Sampled: 07/24/21 08:10
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	590	ug/L		1300	08/03/21 16:53	TJJ	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	08/03/21 16:53	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-33
Name: 33. Room 153 - Classroom Faucet
Alias: SBE-CF-153

Sampled: 07/24/21 08:12
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/03/21 16:54	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 16:54	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-34
Name: 34. Room 152 - Classroom Faucet
Alias: SBE-CF-152

Sampled: 07/24/21 08:20
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	230	ug/L		1300	08/03/21 17:00	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:00	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-35
Name: 35. Room 154 - Classroom Faucet
Alias: SBE-CF-154

Sampled: 07/24/21 08:15
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	480	ug/L		1300	08/03/21 17:05	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	08/03/21 17:05	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-36
Name: 36. Room 155 - Classroom Faucet
Alias: SBE-CF-155

Sampled: 07/24/21 08:20
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	390	ug/L		1300	08/03/21 17:06	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:06	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-37
Name: 37. Room 8 - Classroom Faucet
Alias: SBE-CF-8

Sampled: 07/24/21 08:18
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	2800	ug/L		**1300	08/04/21 17:27	TJJ	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	08/03/21 17:08	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-38
Name: 38. Hall by 5 - Electric Water Cooler
Alias: SBE-EWC-7

Sampled: 07/24/21 08:18
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	08/03/21 17:09	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:09	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-39
Name: 39. Hall by 4 - Electric Water Cooler
Alias: SBE-EWC-8

Sampled: 07/24/21 08:19
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/03/21 17:11	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:11	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-40
Name: 40. Room 10 - Classroom Faucet
Alias: SBE-CF-10

Sampled: 07/24/21 08:20
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	1600	ug/L		**1300	08/03/21 17:12	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:12	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-41
Name: 41. Room 11 - Classroom Faucet
Alias: SBE-CF-11

Sampled: 07/24/21 08:21
Received: 07/28/21 12:16
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/03/21 17:14	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:14	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-42**Name:** 42. Room 12 - Classroom Faucet**Alias:** SBE-CF-12**Sampled:** 07/24/21 08:22**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/03/21 17:20	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:20	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-43**Name:** 43. Room 13 - Classroom Faucet**Alias:** SBE-CF-13**Sampled:** 07/24/21 08:23**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/03/21 17:21	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:21	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-44**Name:** 44. Room 14 - Classroom Faucet**Alias:** SBE-CF-14**Sampled:** 07/24/21 08:24**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/03/21 17:23	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:23	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-45**Name:** 45. Room 15 - Classroom Faucet**Alias:** SBE-CF-15**Sampled:** 07/24/21 08:28**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	340	ug/L		1300	08/03/21 17:24	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:24	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG05616-46**Name:** 46. Room 16 - Classroom Faucet**Alias:** SBE-CF-16**Sampled:** 07/24/21 08:25**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	400	ug/L		1300	08/03/21 17:26	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:26	TJJ	EPA 200.8 REV 5.4

Sample: EG05616-47**Name:** 24. Room 133 - Drinking Water Fountain**Alias:** SBE-**Sampled:** 07/24/21 08:08**Received:** 07/28/21 12:16**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	08/03/21 17:27	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/03/21 17:27	TJJ	EPA 200.8 REV 5.4



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Erin Lane, Project Manager



CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]

Location:	Shepard Boulevard Elementary
Sample Date:	7/24/2021
Sample Time:	Various
Sampled By:	Cullan Even and Joe Rolesing

Sample No.	Coding System	Description	Sample Collected
730 1	SBE-DWF-1	Room 116 - Drinking Water Fountain	Yes
720 2	SBE-DWF-2	Room 117 - Drinking Water Fountain	Yes
722 3	SBE-DWF-3	Room 114 - Drinking Water Fountain	Yes
720 4	SBE-DWF-4	Room 115 - Drinking Water Fountain	Yes
730 5	SBE-EWC-1	Hall By 112 - Electric Water Cooler	Yes
724 6	SBE-DWF-5	Room 112 - Drinking Water Fountain	Yes
720 7	SBE-EWC-2	Hall By 109 - Electric Water Cooler	Yes
715 8	SBE-NF-1	Nurses Office Faucet	Yes
734 9	SBE-DWF-6	Room 104 - Drinking Water Fountain	Yes
730 10	SBE-CF-101	Room 101 - Classroom Faucet	Yes
720 11	SBE-TLF-1	Teachers Lounge	Yes
735 12	SBE-DWF-7	Room 118 - Drinking Water Fountain	Yes
742 13	SBE-EWC-3	Hall By 119 - Electric Water Cooler	Yes
724 14	SBE-CF-120	Room 120 - Classroom Faucet	Yes
748 15	SBE-KF-1	Kitchen Faucet East Wall	Yes
0:00 16	SBE-KF-2	Kitchen Faucet Island	Yes
749 17	SBE-KF-3	Kitchen Faucet West Wall	Yes
745 18	SBE-DWF-8	Room 122 - Drinking Water Fountain	Yes
755 19	SBE-DWF-9	Room 124 - Drinking Water Fountain	Yes
754 20	SBE-DWF-10	Room 127 - Drinking Water Fountain	Yes
724 21	SBE-DWF-11	Room 126 - Drinking Water Fountain	Yes
754 22	SBE-DWF-12	Room 131 - Drinking Water Fountain	Yes
800 23	SBE-DWF-13	Room 130 - Drinking Water Fountain	Yes
802 24	SBE-DWF-14	Room 133 - Drinking Water Fountain	Yes
805 25	SBE-EWC-4	Hall by 136 - Electric Water Cooler	Yes
804 26	SBE-DWF-15	Room 137 - Drinking Water Fountain	Yes
807 27	SBE-CF-140	Room 140 - Classroom Faucet	Yes
807 28	SBE-CF-141	Room 141 - Classroom Faucet	Yes
810 29	SBE-EWC-5	Hall By 147 - Electric Water Cooler	Yes
810 30	SBE-EWC-6	Hall by 148 - Electric Water Cooler	Yes
811 31	SBE-CF-151	Room 151 - Classroom Faucet	Yes
810 32	SBE-CF-150	Room 150 - Classroom Faucet	Yes
812 33	SBE-CF-153	Room 153 - Classroom Faucet	Yes
820 34	SBE-CF-152	Room 152 - Classroom Faucet	Yes
815 35	SBE-CF-154	Room 154 - Classroom Faucet	Yes
820 36	SBE-CF-155	Room 155 - Classroom Faucet	Yes
818 37	SBE-CF-8	Room 8 - Classroom Faucet	Yes
818 38	SBE-EWC-7	Hall By 5 - Electric Water Cooler	Yes
819 39	SBE-EWC-8	Hall By 4 - Electric Water Cooler	Yes

820	40	SBE-CF-10	Room 10 - Classroom Faucet	Yes
821	41	SBE-CF-11	Room 11 - Classroom Faucet	Yes
822	42	SBE-CF-12	Room 12 - Classroom Faucet	Yes
823	43	SBE-CF-13	Room 13 - Classroom Faucet	Yes
824	44	SBE-CF-14	Room 14 - Classroom Faucet	Yes
828	45	SBE-CF-15	Room 15 - Classroom Faucet	Yes
825	46	SBE-CF-16	Room 16 - Classroom Faucet	Yes
	47	SBE-		
	48	SBE-		
	49	SBE-		
	50	SBE-		
	51	SBE-		
	52	SBE-		
	53	SBE-		
	54	SBE-		
	55	SBE-		
	56	SBE-		
	57	SBE-		
	58	SBE-		



"FIRST FLUSH" RESAMPLING

ANALYTICAL RESULTS

Sample: EL04058-88
Name: 9. Room 104 - Drinking Water Fountain
Alias: SBE-104-DWF-6

Sampled: 12/10/21 07:00
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	41	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:25	KMC	EPA 200.8 REV 5.4
Lead	2.8	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:25	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EL04058-89
Name: 12. Room 118 - Drinking Water Fountain
Alias: SBE-118-DWF-7

Sampled: 12/10/21 06:59
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	31	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:27	KMC	EPA 200.8 REV 5.4
Lead	3.4	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:27	KMC	EPA 200.8 REV 5.4

Sample: EL04058-90
Name: 14. Room 120 - Classroom Faucet
Alias: SBE-120-CF-2

Sampled: 12/10/21 06:58
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	34	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:34	KMC	EPA 200.8 REV 5.4
Lead	5.7	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:34	KMC	EPA 200.8 REV 5.4

Sample: EL04058-91
Name: 21. Room 126 - Drinking Water Fountain
Alias: SBE-126-DWF-11

Sampled: 12/10/21 07:01
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	64	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:36	KMC	EPA 200.8 REV 5.4
Lead	7.8	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:36	KMC	EPA 200.8 REV 5.4

Sample: EL04058-92
Name: 23. Room 130- Drinking Water Fountain
Alias: SBE-130-DWF-13

Sampled: 12/10/21 07:06
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	130	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:37	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:37	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EL04058-93
Name: 37. Room 8 - Classroom Faucet
Alias: SBE-8-CF-11

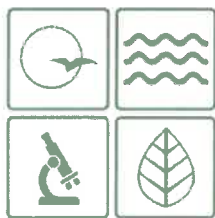
Sampled: 12/10/21 07:08
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	220	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:39	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:39	KMC	EPA 200.8 REV 5.4

Sample: EL04058-94
Name: 40. Room 10 - Classroom Faucet
Alias: SBE-10-CF-12

Sampled: 12/10/21 07:10
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	340	ug/L		01/06/22 09:26	1	3.0	01/06/22 13:41	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 13:41	KMC	EPA 200.8 REV 5.4



Missouri Department of dnr.mo.gov
NATURAL RESOURCES

Michael L. Parson, Governor

Dru Buntin, Director

January 6, 2022

Mr. Michael Travis
Corporate Director of Quality Assurance
Pace Analytical Services, LLC – Peoria, Illinois (Lab #870)
2231 West Altorfer Drive
Peoria, IL 61615-1807

Dear Mr. Travis:

The Missouri Department of Natural Resources has received your notification that PDC Laboratories, LLC was purchased by Pace Analytical Services, LLC effective December 13, 2021 and that the new laboratory name is Pace Analytical Services, LLC – Peoria, Illinois. The Department has also received a copy of the new Environmental Laboratory Accreditation granted by the State of Illinois with your new laboratory name. Therefore, the Department hereby reciprocally certifies Pace Analytical Services, LLC – Peoria, Illinois under the provisions of the Missouri Safe Drinking Water Regulations to perform chemical analyses for public water systems in the State of Missouri.

Enclosed please find a certificate of approval and a certified parameter list for your laboratory. The certified parameter list references the parameters and methods of analysis that the Department has approved. Your certification will expire on June 30, 2022, and is contingent upon no changes of the approved methods or equipment and maintenance of certification from the primary certification authority.

Thank you for your efforts to comply with Missouri's laboratory certification requirements. Should there be any changes to your Illinois certification status, please notify this office within 30 days. Direct any notifications or inquiries related to the approval to Lauren Ferland of my staff, who may be reached at P.O. Box 176, Jefferson City, MO 65102, or by telephone at 573-526-0135.

Sincerely,

WATER PROTECTION PROGRAM

David J. Lamb
Public Drinking Water Branch Chief

DJL/lf

Enclosures

c: Mr. Richard Kirsch, Environmental Services Program



MISSOURI DEPARTMENT OF NATURAL RESOURCES

DRINKING WATER LABORATORY

CERTIFIED PARAMETER LIST

This is to certify that

Pace Analytical Services, LLC
- Peoria, Illinois

located at

2231 West Altorfer Drive, Peoria, Illinois 61615-1807

has been approved to perform the indicated procedures on drinking water under the Missouri Public Drinking Water Regulations (10 CSR 60-5.020). Specific method numbers or references are included in parenthesis when appropriate.

INORGANIC

SM 4500F-C

Fluoride

EPA 245.1

Mercury

SM 4500NO3-F

Nitrate, Nitrite

EPA 300.0

Fluoride, Nitrate, Nitrite

EPA 200.7

Barium, Beryllium, Cadmium,
Chromium, Copper, Nickel

EPA 335.4

Total cyanide

EPA 200.8

Antimony, Arsenic, Barium, Beryllium,
Cadmium, Chromium, Copper, Lead,
Mercury, Nickel, Selenium, Thallium

EPA 353.2

Nitrate, Nitrite, Total Nitrate and Nitrite

ORGANIC

EPA 504.1

Dibromochloropropane (DBCP), Ethylene dibromide (EDB)

EPA 515.3

2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4,5-TP (Silvex)

EPA 524.2

Benzene, Carbon tetrachloride, Monochlorobenzene, o-Dichlorobenzene, para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1-2-Dichloroethylene, trans-1-2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, Toluene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Xylenes (total), Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, Total THMs

EPA 525.2

Alachlor, Atrazine, Chlordane, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Simazine, Toxaphene, PCBs (as Aroclors, qualitative, screening)

EPA 531.1

Carbofuran, Oxamyl (Vydate)

EPA 547

Glyphosate

EPA 548.1

Endothall

EPA 549.2

Diquat

EPA 550

Benzo(a)pyrene

EPA 552.2

Dibromoacetic acid, Dichloroacetic acid, Monobromoacetic acid, Monochloroacetic acid, Trichloroacetic acid

Pace Analytical Services, LLC – Peoria, Illinois

Expiration Date: June 30, 2022

Missouri Certificate No.: 870

Original Certifying State: Illinois

State of Missouri
Department of Natural Resources

**Certificate of Approval
for Chemical Laboratory Service**

This is to certify that

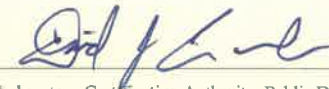
Pace Analytical Services, LLC – Peoria, Illinois

is hereby approved to perform the analysis of drinking water as specified on the
Certified Parameter List, which must accompany this certificate to be valid.

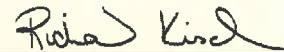
Certification Number 870

Date Issued January 6, 2022

Expiration Date June 30, 2022



Laboratory Certification Authority, Public Drinking Water Branch
Missouri Department of Natural Resources



Certification Program Manager, Environmental Services Program
Missouri Department of Natural Resources